

07/14/03  
31656 U.S. PTO

Attorney Docket No. SAM-0396  
PATENT

21909 U.S. PTO  
10/619112  
07/14/03

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Mail Stop Patent Application  
Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

NEW APPLICATION TRANSMITTAL

Transmitted herewith for filing is the patent application of

Inventor(s): Kun-Hyung Lee  
Soo-Woong Lee  
Hyun-Ho Cho  
Hee-Sun Chae  
Jae-Hyung Jung  
Sun-Yong Lee

For (title): APPARATUS AND METHOD FOR  
PROCESSING WAFERS

1. **Type of Application** This new application is for  
a(n)

- ☒ Original (nonprovisional)  
☐ Design  
☐ Plant  
☐ Divisional.  
☐ Continuation.  
☐ Continuation-in-part (C-I-P).

2. **Benefit of Prior Application(s)**

☒ The new application being transmitted claims the benefit of prior Korean application no. 2003-11777,  
filed on February 25, 2003. See item 7.

3. **Papers Enclosed**

11 Pages of specification  
8 Pages of claims  
1 Page of Abstract  
11 Sheets of drawings  
☐ formal  
☒ informal  
       Page of Cover Sheet

**CERTIFICATE OF MAILING**  
**37 C.F.R. § 1.10**

"Express Mail" Mailing Label Number EV322655944US  
I hereby certify that this paper or fee is being deposited with the  
United States Postal Service "Express Mail Post Office to  
Addressee" service under 37 CFR 1.10 on the date indicated above  
and is addressed to Mail Stop Patent Application, Commissioner for  
Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

Date:

7-14-03

*Christopher Hren*  
Christopher Hren

CHRISTOPHER HREN  
Print Name

- ☐ The enclosed drawing(s) are photograph(s), and there is also attached a "PETITION TO ACCEPT PHOTOGRAPH(S) AS DRAWING(S)." 37 C.F.R. 1.84(b).

**4. Additional papers enclosed**

- ☐ Preliminary Amendment  
☒ Information Disclosure Statement (37 C.F.R. 1.98)  
☒ Form PTO-1449 (PTO/SB/08A and 08B)  
☒ Copies of cited references  
☐ Declaration of Biological Deposit  
☐ Submission of "Sequence Listing," computer readable copy and/or amendment pertaining thereto for biotechnology invention containing nucleotide and/or amino acid sequence.  
☐ Authorization of Attorney(s) to Accept and Follow Instructions from Representative  
☐ Special Comments  
☒ Other: Return Postcard.

**5. Declaration or oath**

- ☒ Enclosed  
☐ Unexecuted  
☒ Executed by  
☒ inventors  
☐ legal representative of inventor(s).  
37 CFR 1.42 or 1.43.  
☐ joint inventor or person showing a proprietary interest on behalf of inventor who refused to sign or cannot be reached.  
☐ This is the petition required by 37 CFR 1.47 and the statement required by 37 CFR 1.47 is also attached. See item 12 below for fee.  
☐ Not Enclosed  
☐ Application is made by a person authorized under 37 C.F.R. 1.41 (c) on behalf of all the above named inventor(s).  
☐ Showing that the filing is authorized.

**6. Assignment**

- ☒ An assignment of the invention to Samsung Electronics Co., Ltd.  
☒ is attached. A separate ☐ "COVER SHEET FOR ASSIGNMENT (DOCUMENT) ACCOMPANYING NEW PATENT APPLICATION" or ☒ FORM PTO 1595 is also attached. will follow.

**7. Certified Copy**

Certified copy(ies) of application(s)

<u>Korea</u>	<u>2003-11777</u>	<u>February 25, 2003</u>
Country	Appln. no.	Filed
Country	Appln. no.	Filed
Country	Appln. no.	Filed

from which priority is claimed

- ☒ is (are) attached.  
☐ will follow.

**8. Fee Calculation (37 C.F.R. 1.16)**

CLAIMS AS FILED					
	Number filed		Number Extra	Rate	Basic Fee 37 C.F.R. 1.16(a) <b>\$750.00</b>
Total					
Claims (37 CFR 1.16(c))	48	- 20 =	28	\$ 18.00	\$504.00
Independent					
Claims (37 CFR 1.16(b))	6	- 3 =	3	\$ 84.00	\$252.00
Multiple dependent claim(s), if any (37 CFR 1.16(d))			+	\$280.00	

- ☐ A Preliminary Amendment is enclosed. The filing fee is calculated based on the status and number of claims remaining after entry of the Preliminary Amendment.
- ☐ Amendment deleting multiple-dependencies is enclosed.
- ☐ Fee for extra claims is not being paid at this time.

Filing Fee Calculation \$1506.00

**9. Small Entity Statement(s)**

- ☐ Verified Statement(s) that this is a filing by a small entity under 37 CFR 1.9 and 1.27 is (are) attached.
- ☐ Status as a small entity was claimed in prior application \_\_\_\_\_, filed on \_\_\_\_\_  
from which benefit is being claimed for this application under:

35 U.S.C. ☐ 119(e),  
☐ 120,  
☐ 121,  
☐ 365(c),

and which status as a small entity is still proper and desired.

- ☐ A copy of the verified statement in the prior application is included.

**Filing Fee Calculation (50% of A, B or C above)**

\$ \_\_\_\_\_

**10. Fee Payment Being Made at This Time**

☐ Not Enclosed

☐ No filing fee is to be paid at this time.  
(This and the surcharge required by 37 C.F.R. 1.16(e) can be paid subsequently.)

☒ Enclosed

☒ Basic filing fee \$1506.00

☒ Recording assignment  
(\$40.00; 37 C.F.R. 1.21(h))  
(See attached "COVER SHEET FOR ASSIGNMENT  
ACCOMPANYING NEW APPLICATION".) \$ 40.00

**Total fees enclosed \$ 1546.00**

**11. Method of Payment of Fees**

☒ Checks in the amounts of \$1506.00 and 40.00

☐ Charge Account No. 50-1798 in the amount of \$ \_\_\_\_\_  
A duplicate of this transmittal is attached.

**12. Authorization to Charge Additional Fees**

☒ The Commissioner is hereby authorized to charge the following additional fees during the entire pendency of this application to Account No. 50-1798.

☒ 37 C.F.R. 1.16(a), (f) or (g) (filing fees)

☒ 37 C.F.R. 1.16(b), (c) and (d) (presentation of extra claims)

☐ 37 C.F.R. 1.16(e) (surcharge for filing the basic filing fee and/or declaration on a date later than the filing date of the application)

☐ 37 C.F.R. 1.17 (application processing fees)

☐ 37 C.F.R. 1.18 (issue fee at or before mailing of Notice of Allowance, pursuant to 37 C.F.R. 1.311(b))

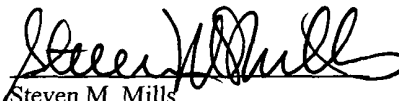
**13. Instructions as to Overpayment**

☒ Credit Account No. 50-1798

☐ Refund

Respectfully submitted,

Date: July 14, 2003  
MILLS & ONELLO LLP  
Eleven Beacon Street, Suite 605  
Boston, MA 02108  
Telephone: (617) 994-4900  
Facsimile: (617) 742-7774

  
Steven M. Mills  
Registration Number 36,610  
Attorney for Applicant

PATENT

Attorney Docket No. SAM-0396

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

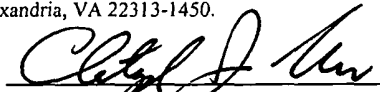
Applicant(s): Kun-Hyung Lee, *et al.*  
Filing Date: Herewith  
Title: APPARATUS AND METHOD FOR PROCESSING WAFERS

---

CERTIFICATE OF MAILING UNDER 37 C.F.R. § 1.10

"Express Mail" Mailing Label Number EV322655944US I hereby certify that this paper or fee is being deposited with the United States Postal Service "Express Mail Post Office to Addressee" service under 37 CFR 1.10 on the date indicated below and is addressed to Mail Stop Patent Application, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

7-14-03  
Date

  
Christopher Hren

---

Mail Stop Patent Application  
Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

TRANSMITTAL LETTER

Sir:

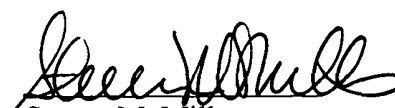
Enclosed herewith for filing in the above-identified patent application please find the following listed items:

1. New Application Transmittal;
2. New Patent Application;
3. Executed Declaration, Petition and Power of Attorney;
4. Eleven (11) Sheets of Informal Drawings (Figures 1-11A-11B);
5. Check in the amount of \$1506.00 to cover application filing fee;
6. Certified Copy of Priority Document - Korean Application No. 2003-11777;
7. Information Disclosure Statement;
8. PTO-1449 form and copies of cited references AA and AB;
9. Assignment Recordation Form Cover Sheet -- PTO-1595;
10. Executed Assignment;
11. Check in the amount of \$40.00 to cover Assignment recordation fee; and
12. Return Postcard.

In connection with the foregoing matter, please charge any additional fees which may be due, or credit any overpayment, to Deposit Account Number 50-1798. A duplicate copy of this letter is provided for this purpose.

Respectfully submitted,

Date: July 14, 2003  
Mills & O'Neil LLP  
Eleven Beacon Street, Suite 605  
Boston, MA 02108  
Telephone: (617) 994-4900  
Facsimile: (617) 742-7774  
J:\SAM\0396\transapp.wpd

  
Steven M. Mills  
Registration Number 36,610  
Attorney for Applicant